

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0025] with the following amended paragraph:

[0025] Consider for purposes of explanation only, a downhole tool having an eight bit parameter with the following sequence of data to be transmitted to the surface: 110, 112, 115, 111 and 107. In one embodiment, the first datum or value transmitted may be in its uncompressed, eight bit format. For some number of intervals thereafter, only the changes in value from the uncompressed datum may be sent. In this example, the values transmitted may be: 110, +2, +5, +1, and -3. In some embodiments of the invention, the compressed values may be related to the immediately prior value, whether compressed or uncompressed. Thus, in these embodiments, the transmitted values for the number sequence above may be: 110, +2, +3, -4, and -4.